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2/3,AB/1 (Item 1 from file: 5)

11651130 Biosis No.: 199800432861

Id ntification and sequencing of the groE operon and flanking genes of Lawsonia intracellularis: Use in phylogeny.

Author: Dale C Jane H; Moses Eric K; Ong Chin-Chui; Morrow Chris J; Reed Michael B; Hasse Dete; Strugnell Richard A(a)

Author Address: (a)Microbiology Immunology Dep., Univ. Melbourne, Royal Parade, Parkville, VIC 3052**Australia

Journal: Microbiology (Reading) 144 (8): p 2073-2084 Aug., 1998

ISSN: 1350-0872

Document Type: Article

R cord Type: Abstract

Language: English

Abstract: Proliferative enteropathy (PE) is a complex of diseases of commercial importance to the pig industry. The obligate intracellular bacterium *Lawsonia intracellularis* is consistently associated with PE and pure cultures of this bacterium have been used to reproduce PE in pigs. In this study *L. intracellularis* bacteria were purified directly from PE-affected tissue. DNA extracted from purified bacteria was used to construct a partial genomic library which was screened using sera from *L. intracellularis*-immunized rabbits. Two seroreactive recombinant clones were identified, one of which expressed proteins of 10 and 60 kDa. The sequence of the insert from this clone, pISI-2, revealed ORFs with sequence similarity to the *groES/EL* operon of *Escherichia coli*, the SOS ribosomal proteins L21 and L27 of *E. coli*, a GTP-binding protein of *Bacillus subtilis* and a possible protoporphyrinogen oxidase, HemK, of *E. coli*. Primers designed from unique sequences from the pISI-2 insert amplified DNA from infected, but not non-infected, porcine ilea; the amplicon sequence obtained from tissue-cultured *L. intracellularis* was identical to the corresponding sequence in pISI-2, confirming the origin of the clone. The sequence of *L. intracellularis* GroEL and other GroEL sequences in the databases were used to construct a partial phylogenetic tree. Analysis of the GroEL sequence relationship suggested that *L. intracellularis* is not significantly related to other organisms whose GroEL sequences are held in the databases and supports previous data from 16S sequence analyses suggesting that *L. intracellularis* is a member of a novel group of enteric pathogens.

1998

2/3,AB/2 (Item 1 from file: 349)

00782839

**INDUCTION OF CYTOTOXIC T LYMPHOCYTE RESPONSE BY HLA CLASS IA
RESTRICTED EPITOPES OF MYCOBACTERIAL HEAT SHOCK PROTEIN 65
INDUCTION D'UNE REPOSE DE LYMPHOCYTES T CYTOTOXIQUES PAR DES
DETERMINANTS ANTIGENIQUES RESTREINTS PAR HLA DE CATEGORIE 1A
DE PROTEINES DE CHOC THERMIQUE MYCOBACTERIENNES 65**

Patent Applicant/Inventor:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200116174 A2-A3 20010308 (WO 0116174)

Application: WO 2000IB1326 20000830 (PCT/ WO IB0001326)

Priority Application: US 99151396 19990830

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD
SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Full Text Word Count: 24623

English Abstract

The induction of HLA-A*0201 restricted CD8+ T cell responses against an immunodominant and highly conserved antigen of mycobacteria (hsp65) in HLA-A*0201/Kb (A2/Kb) transgenic mice and humans is disclosed. At least six high affinity HLA-A*0201 binding CTL epitopes are described, one of which appears to be identical in a large number of pathogenic bacteria, and is recognized in a CD8 independent fashion. This peptide induces CD8+ T cells both in humans and in HLA-A*0201/Kb transgenic mice, which respond to the mycobacterial hsp65 epitope pulsed target or BCG infected macrophages but not to un-infected macrophages or to the same target pulsed with the corresponding human hsp65 homologue. The mycobacterial hsp65 epitope is generated efficiently, whereas the human hsp65 homologue fails to be processed, thus avoiding induction of autoreactivity. Thus, herein described are high affinity HLA class I binding epitopes that are naturally processed and are recognized efficiently by HLA class I restricted CD8 T cells thereby affording sub-unit vaccines against tuberculosis and other infectious diseases.

French Abstract

L'invention concerne l'induction de reponses de lymphocytes T CD8+ restreints par HLA-A*0201 contre un antigene immunodominant et extremement conserve de mycobacteries (hsp65) dans des souris transgeniques et des humains de HLA-A*0201/Kb (A2/Kb). On decrit au moins 6 determinants antigeniques de CTL presentant une affinite importante de fixation a HLA-A*0201, dont l'un semble etre identique dans un nombre important de bacteries pathogenes, et est reconnu d'une facon independante de CD8. Ce peptide induit des lymphocytes T CD8+ a la fois chez les humains et dans des souris transgeniques de HLA-A*0201/Kb, reagissant a la cible definie par le determinant antigenique de hsp65 mycobacterien ou a des macrophages infectes par BCG mais ne reagissant pas a des macrophages non infectes ou a la meme cible definie par l'homologue humain correspondant de hsp65. Ce determinant antigenique de hsp65 mycobacterien est genere de facon efficace, alors qu'il est impossible de traiter l'homologue humain de hsp65, ce qui elimine toute induction d'autoreactivite. De ce fait, l'invention concerne des determinants antigeniques presentant une affinite importante de fixation avec HLA de categorie I qui sont traites naturellement et reconnus efficacement par des lymphocytes T CD8 restreints par HLA de categorie I, ce qui permet d'obtenir des sous-unites de vaccins contre la tuberculose et d'autres maladies infectieuses.

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00757708

**PROTEIN SCAFFOLD AND ITS USE TO MULTIMERISE MONOMERIC
POLYPEPTIDES**

**ECHAFAUDAGE PROTEINIQUE INTERNE ET UTILISATION DE CE DERNIER
POUR MULTIMERISER DES POLYPEPTIDES MONOMERES**

Patent Applicant/Assignee:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200069907 A1 20001123 (WO 0069907)

Application: WO 2000GB1815 20000512 (PCT/ WO GB0001815)

Priority Application: GB 9911298 19990514; GB 9928788 19991203; GB 9928831
19991206

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG
SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 20103

English Abstract

The invention relates to polypeptide monomer capable of oligomerisation, said monomer comprising a heterologous amino acid sequence inserted into the sequence of a subunit of an oligomerisable protein scaffold.

French Abstract

La presente invention concerne un monomere polypeptidique capable d'oligomerisation, ledit monomere comprenant une sequence d'acides amines heterologue inseree dans la sequence d'une sous-unite d'un echafaudage proteinique interne oligomerisable.

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2/3,AB/4 (Item 3 from file: 349)

00757692

OLIGOMERIC CHAPERONE PROTEINS
PROTEINES CHAPERONS OLIGOMERES

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Patent Applicant/Inventor:

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CHATELLIER Jean, 5 Cheddars Lane, Cambridge CB5 8LD, GB, GB (Residence), FR
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FERSHT Alan, MRC Unit for Protein Function and Design, Department of Chemistry,
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(Designated only for: US)

Legal Representative:

MASCHIO Antonio, D Young & Co., 21 New Fetter Lane, London EC4A 1DA, GB

Patent and Priority Information (Country, Number, Date):

Patent: WO 200069886 A2 20001123 (WO 0069886)

Application: WO 2000GB1822 20000512 (PCT/ WO GB0001822)

Priority Application: GB 9911298 19990514; GB 9930530 19991223

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG
SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language : English
Filing Language : English
Fulltext Word Count: 19298

English Abstract

The invention relates to a polypeptide monomer capable of oligomerisation, said monomer comprising a polypeptide which potentiates protein folding inserted into the sequence of a subunit of an oligomerisable protein scaffold.

French Abstract

L'invention concerne un monomere polypeptidique capable d'une oligomerisation. Ce monomere comprend un polypeptide qui active le repliement de la proteine, insere dans la sequence d'une sous-unite d'une proteine d'echafaudage oligomerisable.

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2/3,AB/5 (Item 4 from file: 349)

00379307

THERAPEUTIC AND DIAGNOSTIC COMPOSITIONS
COMPOSITIONS THERAPEUTIQUES ET DIAGNOSTIQUES

Patent Applicant/Assignee:

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PANACCIO Michael,
HASSE Detlef,

Inventor(s):

PANACCIO Michael,
HASSE Detlef,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9720050 A1 19970605

Application: WO 96AU767 19961129 (PCT/ WO AU9600767)

Priority Application: AU 956910 19951130; AU 956911 19951130

D signated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE
ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN KE
LS MW SD SZ UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB
GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language : English

Full Text Word Count: 20953

English Abstract

The present invention relates generally to therapeutic compositions for the treatment and/or prophylaxis of intestinal disease conditions in animals and birds caused or exacerbated by *Lawsonia intracellularis* or similar or otherwise related microorganism. The present invention also contemplates methods for the treatment and/or prophylaxis of such intestinal disease conditions and to diagnostic agents and procedures for detecting *Lawsonia intracellularis* or similar or otherwise related microorganism.

French Abstract

Compositions therapeutiques pour le traitement et/ou la prophylaxie d'etats pathologiques intestinaux chez les animaux, y compris les oiseaux, provoques ou exacerbes par *Lawsonia intracellularis* ou par un micro-organisme analogue, ou par des micro-organismes apparentes. La presente invention concerne egalement des procedes de traitement et/ou de prophylaxie desdits etats pathologiques intestinaux, ainsi que des agents diagnostiques et des procedures pour la detection de *Lawsonia intracellularis* ou d'un micro-organisme analogue, ou de micro-organismes apparentes.

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2/3,AB/6 (Item 1 from file: 357)

0213848 DBA Accession No.: 97-08969 PATENT

Vaccine for treating or preventing infection by *Lawsonia intracellularis*

- GroEL or GroES protein, etc., or DNA sequence for use as a pig recombinant vaccine or nucleic acid vaccine.

Author: Panaccio M; Hasse D

Corporate Source: Melbourne, Victoria, Australia; Barton, Australian Capital Territory, Australia.

Patent Assignee: Daratech; Pig-Research-Development 1997

Patent Number: WO 9720050 **Patent Date:** 970605 **WPI Accession No.:** 97-310605 (9728)

Priority Application Number: AU 956911 **Application Date:** 951130

National Application Number: WO 96AU767 **Application Date:** 961129

Language: English

Abstract: A new vaccine composition for prevention or therapy of animal or bird (particularly pig) infection by *Lawsonia intracellularis* or a related strain contains an immunogenic non-pathogenic form of *L. intracellularis*, e.g. an attenuated strain or formaldehyde-killed preparation, or an immunogenic peptide, protein (optionally recombinant), carbohydrate, lipid or nucleic acid from the strain. A refolding or heat shock protein (GroEL or GroES protein, preferred), a flagellum basal body rod protein, S-adenosylmethionine:tRNA-ribosyltransferase-isomerase, autolysin (EC-3.4.24.38), enoyl-(acyl-carrier-protein)-reductase or a glucarate transporter or derivative may be present. DNA sequences encoding several of these components are claimed, and may be used to produce recombinant vaccines or as nucleic acid vaccines. The vaccines may be used e.g. to prevent proliferative enteropathy in pigs. (94pp)

Derwent Biotech Res. (Dialog® File 357): (c) 2002 Thomson Derwent & ISI. All rights reserved.

2/3,AB/7 (Item 1 from file: 398)

CAS Registry Number: 191877-78-8

Molecular Formula: Unknown

CA Name:

HP= GroES (chaperonin) (*Lawsonia intracellularis*) (9CI)

Synonyms: GenBank U45241-derived protein GI 3599923; Protein (*Lawsonia intracellularis* clone pISI-2 GroEL chaperonin-like)

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2/3,AB/8 (Item 2 from file: 398)

CAS Registry Number: 191877-76-6

Molecular Formula: Unknown

CA Name:

HP= GroEL (chaperonin) (Lawsonia intracellularis) (9CI)

Synonyms: Chaperonin GroEL (Lawsonia intracellularis clone pISI-2); GenBank U45241-derived protein GI 3599924

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2/3,AB/9 (Item 3 from file: 398)

CAS Registry Number: 191877-75-5

Molecular Formula: Unknown

CA Name:

HP= DNA (Lawsonia intracellularis GroEL (chaperonin) cDNA) (9CI)

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2/3,AB/10 (Item 1 from file: 399)

127094116 CA: 127(7)94116h PATENT

Lawsonia intracellular immunogenic components identification, DNA sequences, and uses for animal intestinal infection vaccine or diagnosis

Inventor (Author): Panaccio, Michael; Hasse, Detlef

Location: Australia

Assignee: Daratech Pty. Ltd.; Pig Research and Development Corporation; Panaccio, Michael; Hasse, Detlef

Patent: PCT International ; WO 9720050 A1 **Date:** 19970605

Application: WO 96AU767 (19961129) *AU 956910 (19951130) *AU 956911 (19951130)

Pages: 94 pp.

CODEN: PIXXD2

Language: English

Class: C12N-015/31A; A61K-039/02B; A61K-039/106B

Designated Countries: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GE; HU; IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; TJ; TM; TR; TT; UA; UG; US; UZ; VN; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

Designated Regional: KE; LS; MW; SD; SZ; UG; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE; SN; TD; TG

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